

INVESTIGATOR'S ANNUAL REPORT

National Park Service

All or some of the information provided may be available to the public

Reporting Year: 1999	Park: Redwood National and State Parks
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Co-Investigators: No co-investigators	
Permit#: REDW1999ARGU3	
Park-assigned Study Id. #: unknown	
Project Title: Monitoring of rare, threatened, and endangered plant species at Redwood National Park.	
Permit Start Date: Jan 01, 1999	Permit Expiration Date: Jan 01, 2000
Study Start Date: Jan 01, 1984	Study End Date: Jan 01, 2020
Study Status: Completed	
Activity Type: Monitoring	
Subject/Discipline: Threatened / Endangered / Rare Species	
Objectives: To survey the park for rare, threatened, and endangered plants, to monitor the population trends, and make recommendations for the management and protection of these special plants.	
Findings and Status: Population decrease was noted for Abronia and increases were noted for Oenothera. Abronia dramatically decreased from its 1998 total of 6500 to a 1999 total of approximately 408.;Oenothera increased from 4088 plants in 1998 to 4908 plants in 1999.;The Sidalcea malachroides population decreased from the 1998 total of 20 to a 1999 total of 11. Lycopodium clavatum was found in a new site, bringing the number of sites to 3. Both will be monitored closely and will be incorporated into yearly surveys. More information on these plants will be gathered.;Layia carnosa was found in the park for the first time by USFWS dune ecologist Andrea Pickart. The plants were not in a flowering state, so identification will be confirmed when the plants bloom. If confirmed, the population will be censused and mapped in 2000. More information on this plant will be gathered.;Specimens stored in the Herbarium located at the NPS South Operations Center in Orick.	
For this study, were one or more specimens collected and removed from the park but not destroyed during analyses? Yes	
Funding provided this reporting year by NPS: 3000	Funding provided this reporting year by other sources: 0
Fill out the following ONLY IF the National Park Service supported this project in this reporting year by providing money to a university or college	
Full name of college or university:	Annual funding provided by NPS to university or college this reporting year:

n/a	0
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